

Work Order ID 61905

Thursday, September 09, 2010 1:13:59 PM

Page 1

Item ID: D350-602-013

Accept

Setup Start

Revision ID:

Item Name: Heli-Utility-Pod, LH

Stop

Start Date: 9/9/2010 Start Qty: 1.00

Required Date: 9/17/2010 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: 10-9-09

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr	Revision Nbr
DSI 9515	B

100

0.00



DC

Document Control

DOCUMENT CONTROL

Memo

0.00

Photocopy bluefile & type labels per PPP

D350-602-013

CHG002

8/10/18

7/10/18 BG 10-11-18

110



Purchasing

Purchasing

PURCHASING

0.00

Memo

0.00

Issue P/O:

Description:

D2202-1 Lid

D2202-5 Base

Supplier: Delastek

Conformity Certificate and Process sheet required

Ship Parts D300-1

D3048-1

N/A
Order on
D332204

u

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 61905

Thursday, September 09, 2010 1:13:59 PM



Page 2

Item ID: D350-602-013

Accept



Setup Start



Revision ID:

Item Name: Heli-Utility-Pod, LH

Stop



Start Date: 9/9/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 9/17/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 	Receive & Inspect for Damage & Mat'l Certs	0.00							
Packaging Packaging	Memo Ensure a copy of certification of conformity and process sheet from Delastek is attached.	0.00							
130 	QC6- Inspect dimensions to drawing	0.00							
QC Quality Control	Memo Visual inspection. Check for void spot and pins.	0.00							
140 	Small Fab	0.00							
Small Fab Small Fab	Memo 1-Assemble as per Dwg D2694 2-Install label D2258-160 on Pod Assembly as per Dwg D2694 at location of max pod load label on pg2 of dwg 3-Modify as per DEO 9217	0.00							

BT 10-11-10

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Start Date: 9/9/2010 Start Qty: 1.00

Cust Item ID:

Required Date: 9/17/2010 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

160

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

170

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control



70

Philiasf D

70

W/O:		WORK ORDER CHANGES					
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Item ID: D350-602-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Heli-Utility-Pod, LH

Start Date: 9/9/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 9/17/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

180

0.00



Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-602-013

Location: 104

PPP Rev: 5

col/11/18

190

0.00



QC21- Final Inspection - Work Order Release

QC

Memo

0.00

Quality Control

10/11/18

MF 10-11-18

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 1

Work Order ID: 61905

Parent Item: D350-602-013

Parent Item Name: Heli-Utility-Pod, LH



Start Date: 9/9/2010

Required Date: 9/17/2010

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A New Issue 06-05-01 JLM IPP Rev:B Added D3495-1 06-05-17
JLM IPP RevC: add route seq DD 10.01.07 verified
by:EC IPP REV:D AS PER ECN 10-558 JLM 10-04-27
VERIFIED BY:DD
IPP Rev:C 09-02-03 update dwg rev's DD verified by:EC IPP Rev:D
add D2202-1 and D2202-5 DD 10.04.07 verified:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3322-041 Pod Assembly		Manufactured	No			110	Each	0.0000	1	1			
D4091-1 Mounting Lug		Manufactured	No			110	Each	5.0000	4	4			
<div>Location</div> <div>ST460</div> <div>61008</div> <div>Loc Qty</div> <div>5</div> <div>5</div> <div>Loc Code</div>													
D3910-3 Crosstube Lug		Manufactured	No			110	Each	8.0000	4	4			
<div>Location</div> <div>st507</div> <div>61259</div> <div>Loc Qty</div> <div>8</div> <div>8</div> <div>Loc Code</div>													
D2258-160 Placard		Manufactured	No			110	Each	3.0000	1	1			
<div>Location</div> <div>ST505</div> <div>60697</div> <div>Loc Qty</div> <div>3</div> <div>3</div> <div>Loc Code</div>													

B61900 10/11/08

B61993 10/11/08

B61991 10/11/08

ET 10-11-08

X1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Work Order ID: 61905

Parent Item: D350-602-013

Parent Item Name: Heli-Utility-Pod, LH

Start Date: 9/9/2010

Required Date: 9/17/2010

Start Qty: 1.00

Required Qty: 1.00

D2324 *W* Manufactured No

110 Each

0.0000

1

Strut Assembly

D2523 Manufactured No

110 Each

4.0000

2

Mounting Bracket

Location

Loc Qty

Loc Code

ST199

4

59870

2

60229

2

D2524 Manufactured No

110 Each

7.0000

2

Bracket Clamping

Location

Loc Qty

Loc Code

ST481

7

36396

2

61251

5

D3495-1 Manufactured No

110 Each

9.0000

1

Placard

Location

Loc Qty

Loc Code

ST065

9

55564

9

D3984 Manufactured No

110 f

427.6363

2

Rubber Extrusion, Crosstube

Location

Loc Qty

Loc Code

ST408

427.6363

53707

427.6363

CUT 8 AT 3.00"

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Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Page 3

Work Order ID: 61905

Parent Item: D350-602-013

Parent Item Name: Heli-Utility-Pod, LH

Start Date: 9/9/2010

Required Date: 9/17/2010

Start Qty: 1.00

Required Qty: 1.00

AN3-7A
Bolt

Purchased

No

110

Each

110.0000

4

4

Location

Loc Qty

Loc Code

ST351

110

113539

14

114227

4

114784

92

AN3-15A
Bolt

Purchased

No

110

Each

82.0000

8

8

Location

Loc Qty

Loc Code

ST352

82

101780

32

114941

50

AN4-12A
Bolt

Purchased

No

110

Each

317.0000

1

1

Location

Loc Qty

Loc Code

ST357

317

112314

117

115371

40

115422

160

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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Page 4

Work Order ID: 61905

Parent Item: D350-602-013

Parent Item Name: Heli-Utility-Pod, LH

Start Date: 9/9/2010

Required Date: 9/17/2010

Start Qty: 1.00

Required Qty: 1.00

AN4-14A

Purchased

No

110

Each

208.0000

16

16



Bolt



M115936 10/11/10

Location

Loc Qty

Loc Code

ST357

192

114752

8

115371

150

115422

34

ST358

16

113359

16

AN4-16A

Purchased

No

110

Each

180.0000

4

4



Bolt



M115374 10/11/10

Location

Loc Qty

Loc Code

ST358

75

115016

25

115159

50

ST360

105

AN960JD10

NAS1149D0363J

Purchased

No

110

Each

16.0000

24

24



Washer



M115622 10/11/10

Location

Loc Qty

Loc Code

ST

6

107715

6

ST335

10

105792

10

AN960JD416

NAS1149D0463J

Purchased

No

110

Each

0.0000

42

42



Washer



M116025 10/11/10

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Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Work Order ID: 61905

Parent Item: D350-602-013

Parent Item Name: Heli-Utility-Pod, LH

Start Date: 9/9/2010

Required Date: 9/17/2010

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

2,081.000

12

12



Nut



WHL/OSP

Location

Loc Qty

Loc Code

ST300

2081

104625

10

114523

109

114784

1962

MS21042L4

Purchased

No

110

Each

4,154.000

21

21



Nut



WHL/OSP

Location

Loc Qty

Loc Code

ST300

4154

113422

68

114523

28

114718

16

114784

222

115108

1920

115589

1900

21

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-602 REV E (OR EARLIER REV.)
AND INSTRUCTIONS FOR CONTINUOUS AIRWORTHINESS ICA-D350-602 REV. 0

REF. TCCA STC: SH93-97
REF. FAA STC: SR01144NY
REF. EASA STC: EASA.IM.R.S.01290

SHOOT COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
NO. 61805
RS10-209

PURPOSE

Dart Heli-Utility-Pods D350-602-011 @ CHG 006 and D350-602-013/-014 @ CHG 002 have new attachment lugs.

CHANGE

The D2230-1/-3 clamps are replaced with wider D4091-1/D3910-3 lugs. The abrasion strip is replaced with D3984-030 rubber extrusion. The D2462-1700 Neoprene Seal is replaced with D2461-1700 Neoprene 'D' Seal. The modified parts list for Installation Instruction D350-602 and Instructions for Continued Airworthiness ICA-D350-602 is shown on sheet 2 of this service instruction. Install the lugs as shown in Figure 1 & 2 of this service instruction. The pod should otherwise be installed per D350-602 and maintained per ICA-D350-602.

The weight and balance for Dart Heli-Utility-Pods D350-602-011 @ CHG 006 and D350-602-013/-014 @ CHG 002 (or later) are updated as follows:

5.0 WEIGHT AND BALANCE (D350-602 Rev. E)

25.6 WEIGHT AND BALANCE (ICA-D350-602 Rev. 0)

The following weight and balance information is for the Dart *Heli-Utility-Pod™*. The weight and balance of any parts that are removed from the aircraft to perform this installation or equipment installed/stowed in the pods are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-602-011 @ CHG 006	61.2 lb	±51.0 in	±3121 in-lb	135 in	8262 in-lb
Heli-Utility-Pod™ LH or RH	27.8 kg	±1.29 m	±35.9 m-kG	3.43 m	95.4 m-kG
D350-602-013 @ CHG 002	61.2 lb	-51.0 in	-3121 in-lb	135 in	6872 in-lb
Heli-Utility-Pod™ LH	27.8 kg	-1.29 m	-35.9 m-kG	3.43 m	79.2 m-kG
D350-602-014 @ CHG 002	61.2 lb	+51.0 in	+3121 in-lb	135 in	6872 in-lb
Heli-Utility-Pod™ RH	27.8 kg	+1.29 m	+35.9 m-kG	3.43 m	79.2 m-kG

LUG UPGRADE KIT

The Dart DSI-9515-011 kit is available to upgrade D350-602-XXX Heli-Utility-Pods made to earlier change numbers with D4091-1 / D3910-3 lugs. The lugs should be installed per Figure 1 & 2 of this service instruction.

QTY -011	Part Number	Description
X	DSI-9515-011	LUG UPGRADE KIT
4	D4091-1	LUG
4	D3910-3	LUG
8	D3984-030	RUBBER EXTRUSION
16	AN4-14A	BOLT
32	AN960JD416	WASHER (OR NAS1149DO463J)
16	MS21042L4	NUT (OR MS21042-4)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.04.23
CERT. NO.: SH93-97
ISSUE NO.: 4

B	NAS1149DO463J WAS xDN432J & CHG QTY	CP	10.04.23
A	NEW ISSUE	CP	10.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9515	SHEET 1 OF 4
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	LUG MODIFICATION	NTS
DATE	10.04.23	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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6.0 PART LIST (D350-602 Rev. E)
25.7 PARTS LIST (ICA-D350-602 Rev. 0)

W/B 61905

Qty D350-602 -011	Qty D350-602 -013	Qty D350-602 -014	Qty DSI9052 -013	Part Number	Description
X				D350-602-011	HELI-UTILITY-POD™ (FITS BOTH LH/ RH)
	X			D350-602-013	HELI-UTILITY-POD™, LH
		X		D350-602-014	HELI-UTILITY-POD™, RH
			X	DSI9052-013	QUICK RELEASE KIT
1				D2694	POD ASSEMBLY (LH OR RH)
	1			D3322-041	POD ASSEMBLY (LH)
		1		D3322-042	POD ASSEMBLY (RH)
1	1	1		*D2202-1	POD LID
1				*D2202-3	POD BASE
	1	1		*D2202-5	POD BASE
5	5	5		*D2204-9	LATCH
1	1	1		*D2429-041	SPRING CLIP ASSEMBLY
1	1	1		*D2461-1700	NEOPRENE 'D' SEAL
5	5	5		*D2528-1	BACKER PLATE
4	4	4		*D2528-3	BACKER PLATE
1	1	1		*D2569	HINGE
1	1	1		*D3007-041	PROP ASSEMBLY
1	1	1		** D2012-107	CLEVIS
2	2	2		** D2022-101	SPACER
1	1	1		** D2705	SUPPORT BRACKET
1	1	1		** D3007-1	STRUT
1	1	1		** D3015-3	LOCKNUT
1	1	1		** AN4-10A	BOLT
1	1	1		** AN960JD416	WASHER
1	1	1		** MS21042L4	NUT (OR MS21042-4)
1	1	1		** SL69-BS	BALL STUD
1	1	1		** AN960JD516	WASHER
19	19	19		AN4-5A	BOLT
1	1	1		AN4-6A	BOLT
2	2	2		AN526C632R7	SCREW
21	21	21		AN960JD416	WASHER
2	2	2		AN960JD6	WASHER
2	2	2		MS21042L06	NUT (OR MS21042-06)
20	20	20		MS21042L4	NUT (OR MS21042-4)
4	4	4		D4091-1	LUG
4	4	4		D3910-3	LUG
1	1	1		D2258-160	LABEL
1	1	1		D2324-1	STRUT ASSEMBLY
2	2	2		D2523	MOUNTING BRACKET
2	2	2		D2524	SIDE PLATE
1	1	1		D3495-1	PLACARD
8	8	8		D3984-030	RUBBER EXTRUSION
4	4	4		AN3-7A	BOLT
8	8	8		AN3-15A	BOLT
1	1	1		AN4-12A	BOLT
16	16	16		AN4-14A	BOLT
4	4	4		AN4-16A	BOLT
24	24	24		AN960JD10	WASHER
42	42	42		AN960JD416	WASHER
12	12	12		MS21042L3	NUT (OR MS21042-3)
21	21	21		MS21042L4	NUT (OR MS21042-4)
			1	BLRS-010	QUICK RELEASE PIN (1" GRIP)
			3	BLRS-020	QUICK RELEASE PIN (1.5" GRIP)

* INCLUDED IN D2694 OR D3322-041/-042 POD ASSEMBLIES LISTED ABOVE






** INCLUDED IN D3007-041 PROP ASSEMBLY LISTED ABOVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-Q-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 10.04.23
CERT. NO.: SH93-97
ISSUE NO.: 4

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9515	SHEET 2 OF 4
APPROVED		TITLE	SCALE
DE APPR.		LUG MODIFICATION	NTS
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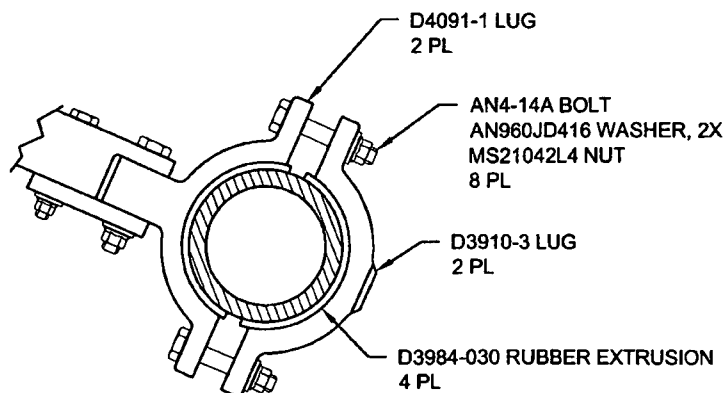
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



SECTION X-X
NOT TO SCALE

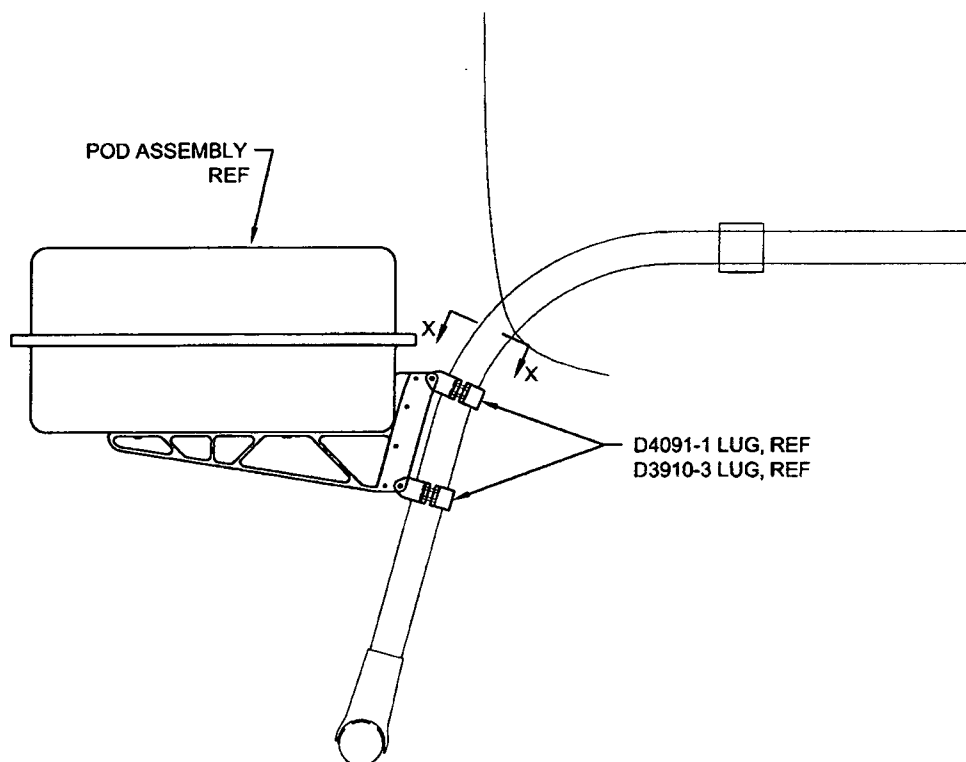


FIGURE 1: Aft Crosstube Attachment
(Installation of D4091-1 / D3910-3 Lugs)

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY:	<i>[Signature]</i>
	D. SHEPHERD (DE # 02)
DATE:	10.04.23
CERT. NO.:	SH93-97
ISSUE NO.:	4

DESIGN	<i>92</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>92</i>		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9515	SHEET 3 OF 4
APPROVED	<i>AND</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	LUG MODIFICATION	NTS
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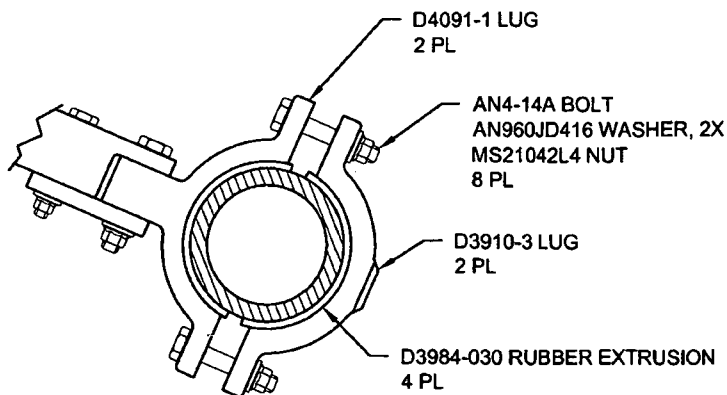
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



SECTION X-X
NOT TO SCALE

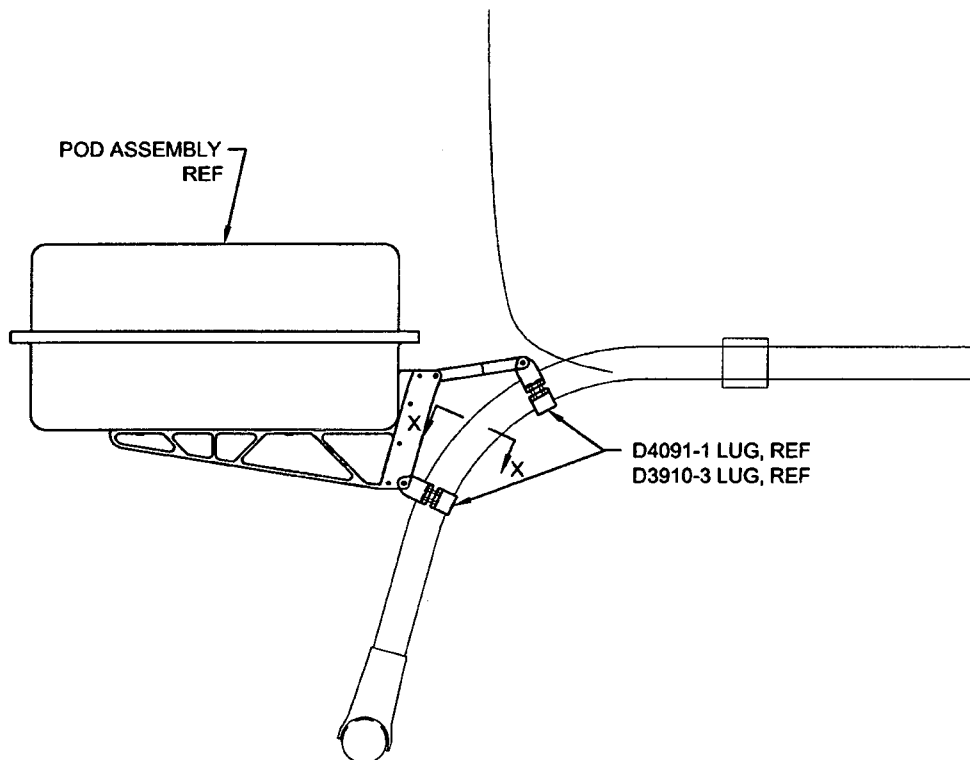


FIGURE 2: Fwd Crosstube Attachment
(Installation of D4091-1 / D3910-3 Lugs)

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY:	<i>[Signature]</i>
D. SHEPHERD (DE # 02)	
DATE:	10.04.23
CERT. NO.:	SH93-97
ISSUE NO.:	4

DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9515	SHEET 4 OF 4
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	LUG MODIFICATION	NTS
DATE 10.04.23		COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

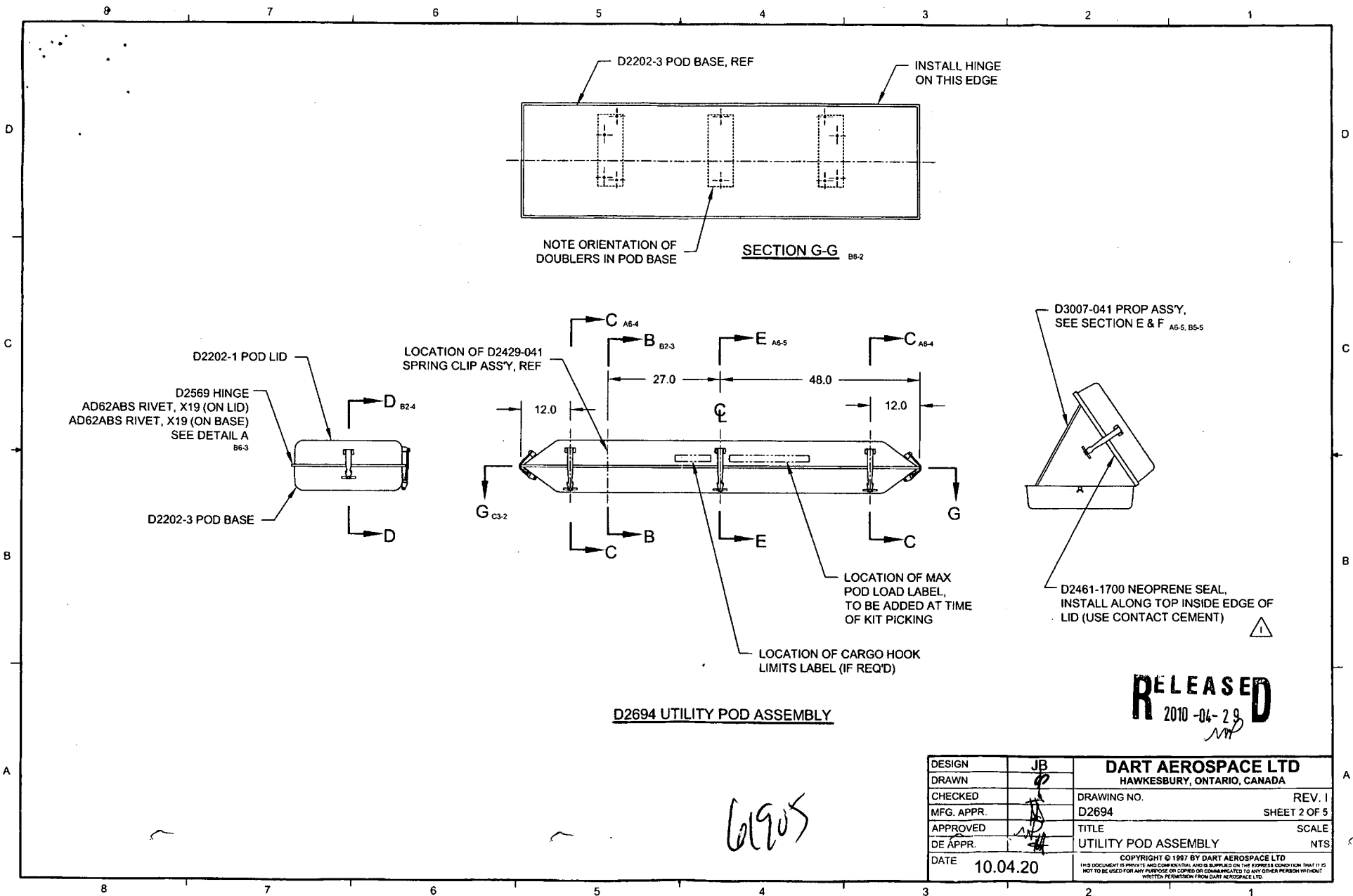
Qty	Part Number	Description
X	D2694	UTILITY POD ASSEMBLY
1	D2202-1	POD LID
1	D2202-3	POD BASE
5	D2204-9	LATCH
1	D2429-041	SPRING CLIP ASSEMBLY
1	D2461-1700	NEOPRENE SEAL
5	D2528-1	BACKER PLATE
4	D2528-3	BACKER PLATE
1	D2569	HINGE
1	D3007-041	PROP ASSEMBLY
19	AN4-5A	BOLT
1	AN4-6A	BOLT
2	AN526C632R7	SCREW
21	AN960JD416	WASHER
2	AN960JD6	WASHER
2	MS21042L06	NUT (OR MS21042-06)
20	MS21042L4	NUT (OR MS21042-4)
38	AD62ABS	RIVET

GENERAL NOTES:

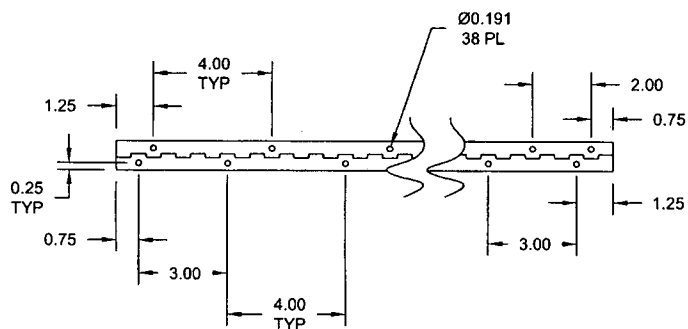
- 1) MATERIAL: N/A
- 2) FINISH: PRIME AND PAINT PER QSI 005 4.2 TO MATCH ORIGINAL FINISH
AS REQ'D TO TOUCH UP FINISH AFTER DRILLING OR ASSEMBLY
INSIDE: DUPONT HIGHBUILD PRIMER GREY 1144-S
OR DUPONT 2K-URETHANE PRIMER GREY 7704-S
OUTSIDE: DUPONT IMRON POLYURETHANE ENAMEL BASE WHITE (555U)
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 48.5 lbs
- 8) TRANSFER DRILL UNSPECIFIED HOLES FROM ATTACHING PART AS FOLLOWS:
AN526C632 → DRILL Ø0.141
AN4 → DRILL Ø0.257
- 9) SEAL ALL HOLES AND EDGES OF POD WITH CYANOACRYLATE GLUE
- 10) FOR D2569 HINGE:
 - (i) INSTALL RIVET HEADS FROM OUTSIDE OF POD
 - (ii) GRIND TRAILING EDGE OF RIVET TO PERMIT HINGE TO CLOSE
 - (iii) ENSURE ALL RIVET HOLES ARE DRILLED ON THE LARGER HINGE TABS AS SHOWN IN DETAIL A

RELEASED
2010-04-29

I	REFORMAT, D2204-9 LOC SPEC'D (B2-4,B6-4,C2-4,C6-4,B6-5,C6-5), D2461-X WAS D2462-X (D5-1,B1-2), ADD FINISH (B5-1)	CP	10.04.20
H	CHANGED RIVETS FROM AD64ABS TO AD62ABS (PAR#185)	DC	07.07.18
G	REVERT BACK TO D2204-9 LATCH	CP	01.05.08
F	REDESIGN, CHANGE LATCHES & PROP	CP	01.03.20
E	CHANGE DIMENSIONS	RF	99.12.20
D	SEAL & HINGE CHANGE (TSR A1047 & A855/A858); INCLUDED DE09119	CP	99.01.08
C	ADD DOUBLER HOLES, REMOVE FINISH	KE	98.11.12
B	CHANGE RIVET PATTERN, ADD D2429	KE	97.10.08
A	NEW ISSUE CREATED TO REPLACE D350-602-041 AND -043	KE	97.07.02
REV.	DESCRIPTION	BY	DATE
DESIGN	JB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JP		
CHECKED	JP	DRAWING NO.	REV. I
MFG. APPR.	JP	D2694	SHEET 1 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	UTILITY POD ASSEMBLY	NTS
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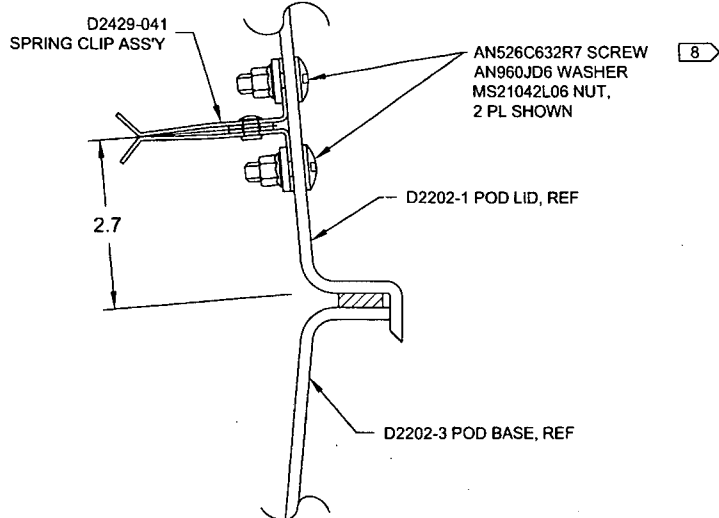


8 7 6 5 4 3 2 1



DETAIL A: HINGE
NOT TO SCALE

10
C7-2



SECTION B-B
NOT TO SCALE

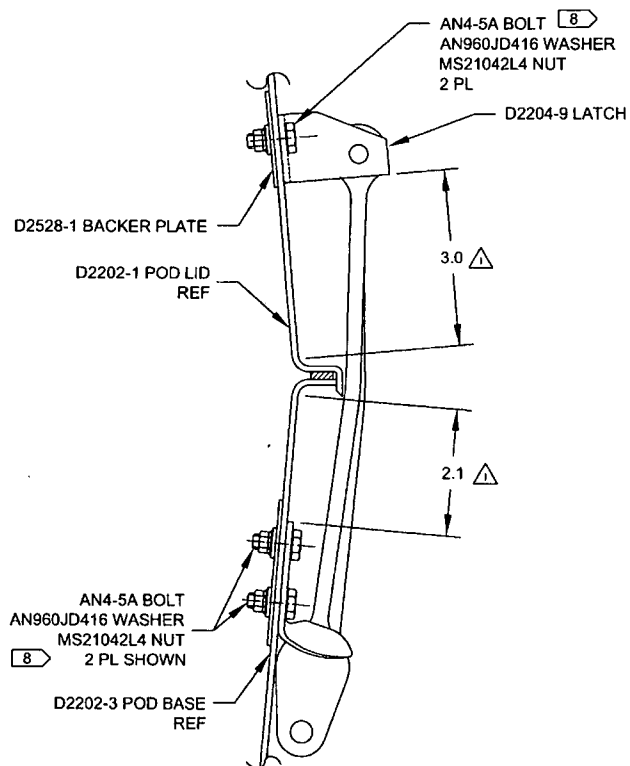
C6-2

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2010-04-29
MD

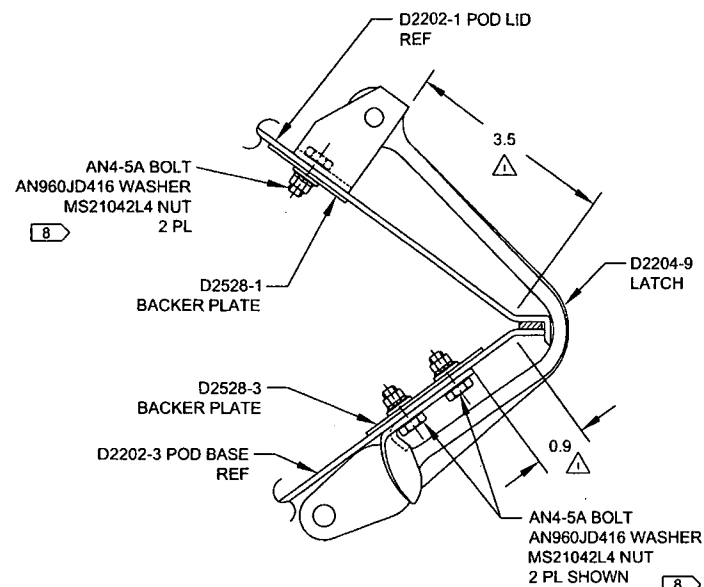
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DESIGN	JB	DART AEROSPACE LTD	
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CHECKED	JP	DRAWING NO.	REV. 1
MFG. APPR.	JP	D2694	SHEET 3 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	UTILITY POD ASSEMBLY	NTS
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8 7 6 5 4 3 2 1



SECTION C-C
SCALE 10X C3-2, C5-2



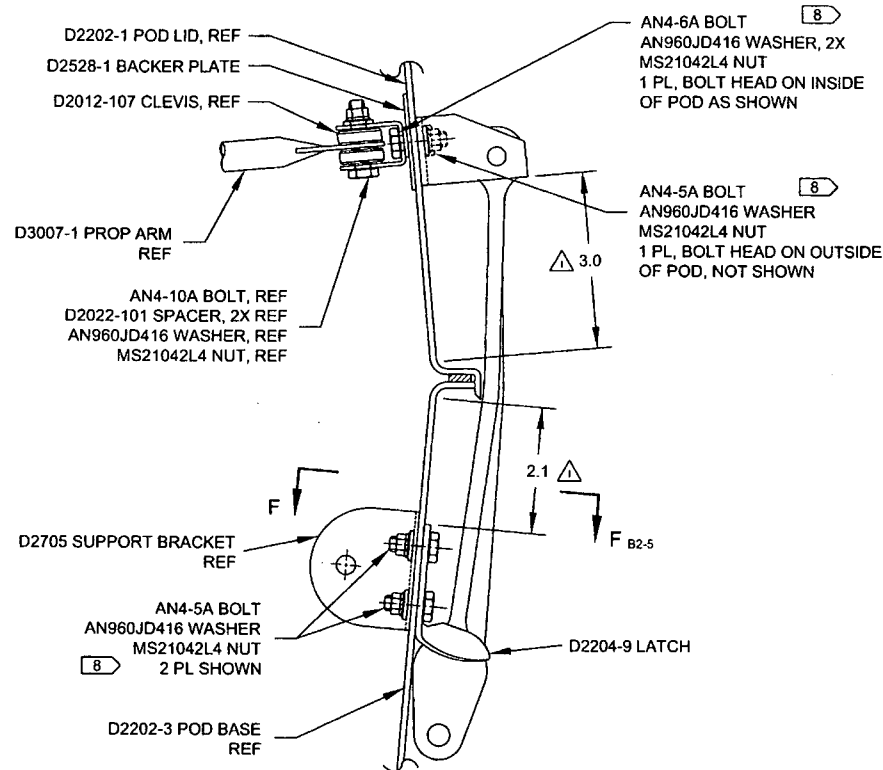
SECTION D-D
SCALE 10X C6-2

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2010-04-29
AMP

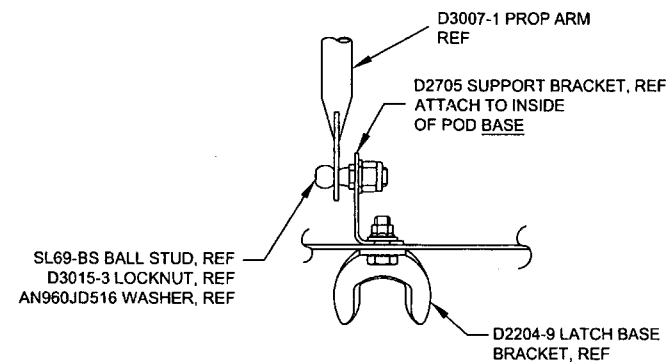
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CHECKED	<i>JP</i>	DRAWING NO.	REV. 1
MFG. APPR.	<i>JP</i>	D2694	SHEET 4 OF 5
APPROVED	<i>JP</i>	TITLE	SCALE
DE APPR.	<i>JP</i>	UTILITY POD ASSEMBLY	NTS
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61905

8 7 6 5 4 3 2 1



SECTION E-E C4-2
SCALE 10X



SECTION F-F B5-5
D3007-041 PROP ASS'Y DETAIL
SECTION ROTATED 85° CW

RELEASED
2010-04-28
MD

61905

DESIGN	JB	DART AEROSPACE LTD	
DRAWN	JP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	[Signature]	DRAWING NO.	REV.
MFG. APPR.	[Signature]	D2694	SHEET 5 OF 5
APPROVED	[Signature]	TITLE	SCALE
DE APPR.	[Signature]	UTILITY POD ASSEMBLY	NTS
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8 7 6 5 4 3 2 1

NOTES:

1) MATERIALS:

RESIN: EPOCAST 50-A/9816,
OR DERAKANE 470-36/411/510A40

FOAM: A500 CORE CELL,
OR DIVINYCELL,
OR AIREX,
0.38 THICK (3/8 FOAM)

FIBRE: 9.7 oz 7781 WEAVE "S" GLASS (9 oz SATIN)
5 oz PLAIN WEAVE KEVLAR (5 oz KEVLAR)

2) FINISH: INSIDE = PRIME PER DART QSI 005 4.2
OUTSIDE = WHITE GELCOAT #GEL 944W005

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: NONE

7) WEIGHT: N/A

8) LAMINATE PER DART QSI 006.
LAMINATION SCHEDULE PER THIS DRAWING.

9) PEEL PLY ALL SURFACES.

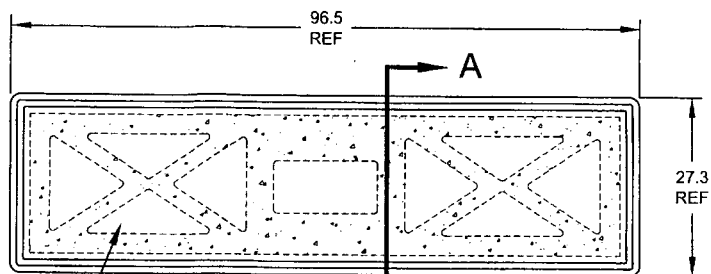
WLO
61905

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2010-10-28
ND

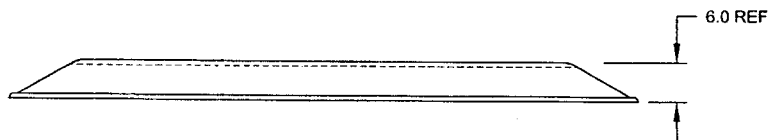
G	REFORMAT DRAWING TO CURRENT STANDARDS; D2202-101 WAS D2202-1 (ZN C5-2, A4-2); ADD 77.5 & 22.0 DIM. (ZN D4-3, C6-3); D2202-103 WAS D2202-5 (ZN C5-3, A4-3); ADD 2.00 MAX (ZN D3-4); INCORPORATED DEO 9217 & ADD D2202-5/-6 ON SHEET 5 PER PAR 09-034	RF	09.10.06
F	CHANGE LAYUP, DOUBLER, NOW DRILLED	CP	01.03.14
E	ADDED SECTIONS WITH LIP DIMS	KE	99.11.11
D	MOVED DOUBLERS, REMOVED HOLES	KE	98.11.09
C	REVISED DOUBLER/HOLES LOCATIONS	KE	97.07.04
B	ADD DOUBLERS AND HOLES	-	93.10.27
A	NEW ISSUE	-	93.10.27
REV.	DESCRIPTION	BY	DATE
DESIGN	KE	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	97	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 1 OF 5
APPROVED	147	TITLE	SCALE
DE APPR.	147	UTILITY POD LID AND BASE	NTS
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SEE
DETAIL B
A6-2

SECTION A-A C3-2

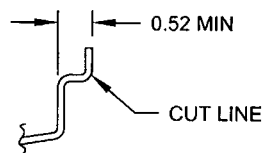


G
D2202-101 FOAM CORE,
MAKE FROM 3/8" FOAM, ROUTER PER DT8024



D2202-1 LID
(MOLD DT8002)

61905



DETAIL B
SCALE 10X D6-2

MAIN LAYUP

9oz SATIN
9oz SATIN
5oz KEVLAR
G D2202-101 FOAM CORE
5oz KEVLAR
9oz SATIN

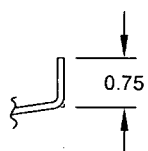
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DRAWN	RF		
CHECKED	97	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 2 OF 5
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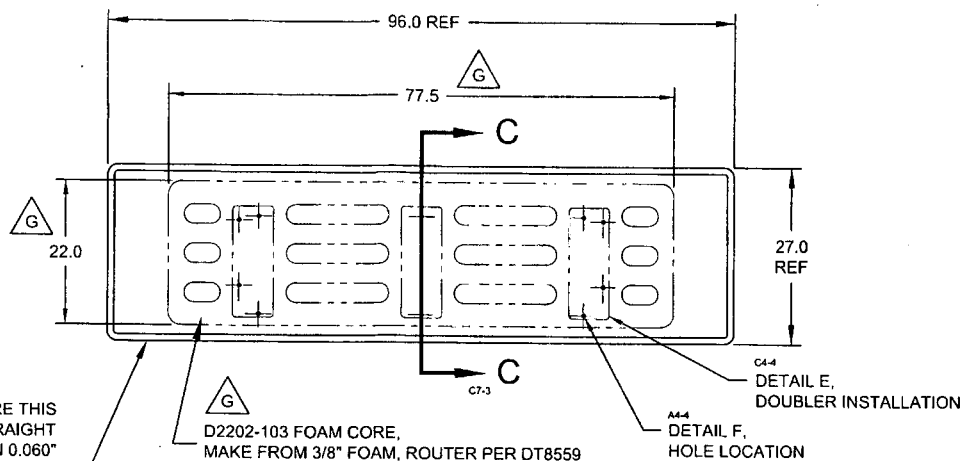
SEE
DETAIL D
B7-3

SECTION C-C C4-3

ENSURE THIS
EDGE IS STRAIGHT
WITHIN 0.060"
AFTER TRIMMING



DETAIL D D7-3
SCALE 10X



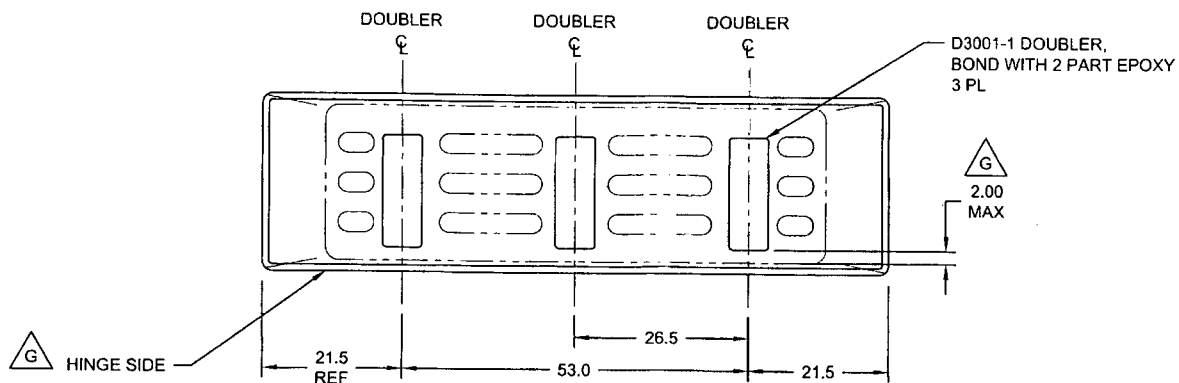
D2202-3 BASE
(MOLD DT8002)

MAIN LAYUP

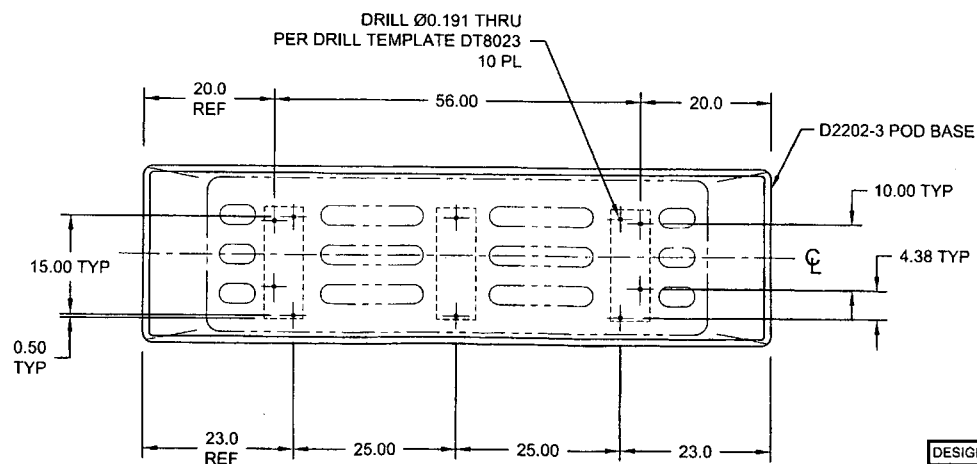
9oz SATIN
9oz SATIN
5oz KEVLAR
D2202-103 FOAM CORE
5oz KEVLAR
5oz KEVLAR
9oz SATIN

RELEASED
2010-10-28

DESIGN	KE	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	JP	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 3 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	UTILITY POD LID AND BASE	NTS
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DETAIL E: INSTALLATION OF D3001-1 DOUBLERS C3-3



**DETAIL F: HOLE DRILLING
(AFTER DOUBLER INSTALLATION)** C3-3

61905

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2010-10-28

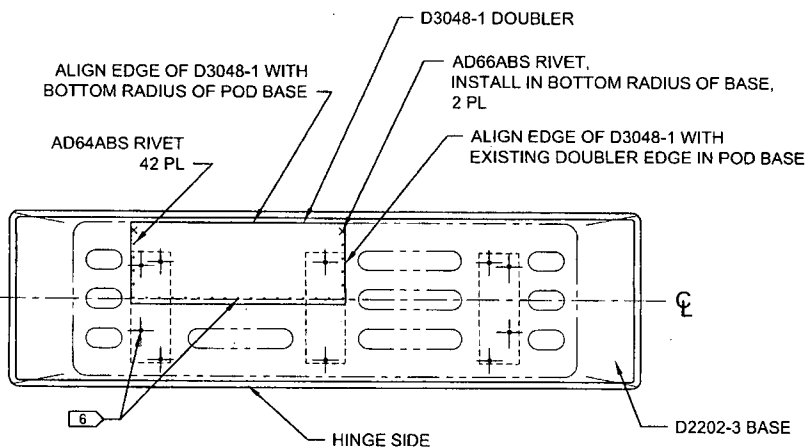
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MFG. APPR.	JM	D2202	SHEET 4 OF 5
APPROVED	JP	TITLE	SCALE
DATE	09.10.06	UTILITY POD LID AND BASE	NPS
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NOTES: TO MAKE A D2202-5/-6 BASE (FOR D350-602-013/-014) FROM A D2202-3 BASE

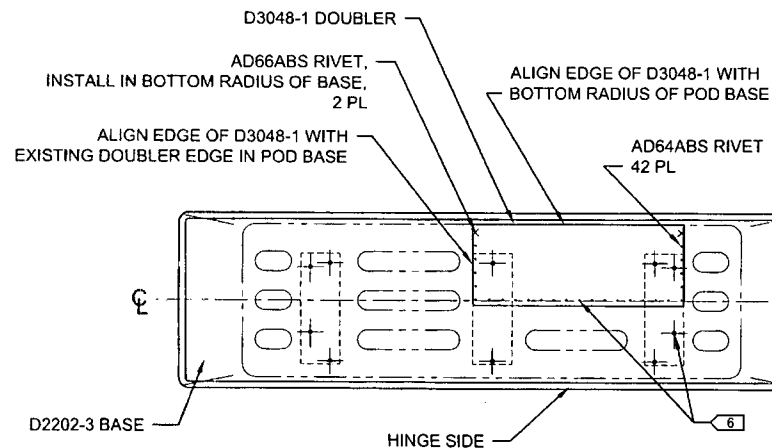
- 1) REMOVE FOAM IN AREA OF POD BASE WHERE D3048-1 DOUBLER WILL BE INSTALLED
- 2) FILL GAPS WITH 9oz SATIN AND RESIN PER DWG (APPROX. 3-4 LAYERS)
- 3) 2 LAYERS OF 9oz SATIN
- 4) BOND D3048-1 DOUBLER IN ORIENTATION SHOWN AND LET CURE
- 5) TRANSFER Ø0.125 HOLES FROM D3048-1 TO POD BASE. INSTALL DOUBLER WITH AD64ABS RIVETS (42) AND AD66ABS (2)
- 6) TRANSFER Ø0.191 HOLES FROM POD BASE TO D3048-1. SEAL HOLES WITH CYANOACRYLATE GLUE
- 7) TOUCH UP AFFECTED AREA WITH GREY PRIMER PER DWG
- 8) FILL CENTER OF THE AD RIVETS WITH RTV 732 TO SEAL

PART LIST:

QTY -5	QTY -6	PART NUMBER	DESCRIPTION
X		D2202-5	POD BASE
	X	D2202-6	POD BASE
1	1	D2202-3	BASE
1	1	D3048-1	DOUBLER
42	42	AD64ABS	RIVET
2	2	AD66ABS	RIVET
A/R	A/R	RTV	SEALANT



D2202-5 BASE: D3048-1 DOUBLER INSTALLATION
(MAKE FROM D2202-3 BASE)



D2202-6 BASE: D3048-1 DOUBLER INSTALLATION
(MAKE FROM D2202-3 BASE)

DESIGN	KE	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	JP	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 5 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	UTILITY POD LID AND BASE	NTS
DATE	09.10.06	<small>COPYRIGHT © 1993 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

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2010-10-28

61905

6.0 PART LIST (D350-602 Rev. E)
25.7 PARTS LIST (ICA-D350-602 Rev. 0)

REFERENCE ONLY

Qty D350-602 -011	Qty D350-602 -013	Qty D350-602 -014	Qty DSI9052 -013	Part Number	Description
X				D350-602-011	HELI-UTILITY-POD™ (FITS BOTH LH/ RH)
	X			D350-602-013	HELI-UTILITY-POD™, LH
		X		D350-602-014	HELI-UTILITY-POD™, RH
			X	DSI9052-013	QUICK RELEASE KIT
1				D2694	POD ASSEMBLY (LH OR RH)
	1			D3322-041	POD ASSEMBLY (LH)
		1		D3322-042	POD ASSEMBLY (RH)
1	1	1		*D2202-1	POD LID
1				*D2202-3	POD BASE
	1	1		*D2202-5	POD BASE
5	5	5		*D2204-9	LATCH
1	1	1		*D2429-041	SPRING CLIP ASSEMBLY
1	1	1		*D2461-1700	NEOPRENE 'D' SEAL
5	5	5		*D2528-1	BACKER PLATE
4	4	4		*D2528-3	BACKER PLATE
1	1	1		*D2569	HINGE
1	1	1		*D3007-041	PROP ASSEMBLY
1	1	1		** D2012-107	CLEVIS
2	2	2		** D2022-101	SPACER
1	1	1		** D2705	SUPPORT BRACKET
1	1	1		** D3007-1	STRUT
1	1	1		** D3015-3	LOCKNUT
1	1	1		** AN4-10A	BOLT
1	1	1		** AN960JD416	WASHER
1	1	1		** MS21042L4	NUT (OR MS21042-4)
1	1	1		** SL69-BS	BALL STUD
1	1	1		** AN960JD516	WASHER
19	19	19		AN4-5A	BOLT
1	1	1		AN4-6A	BOLT
2	2	2		AN526C632R7	SCREW
21	21	21		AN960JD416	WASHER
2	2	2		AN960JD6	WASHER
2	2	2		MS21042L06	NUT (OR MS21042-06)
20	20	20		MS21042L4	NUT (OR MS21042-4)
4	4	4		D4091-1	LUG
4	4	4		D3910-3	LUG
1	1	1		D2258-160	LABEL
1	1	1		D2324-1	STRUT ASSEMBLY
2	2	2		D2523	MOUNTING BRACKET
2	2	2		D2524	SIDE PLATE
1	1	1		D3495-1	PLACARD
8	8	8		D3984-030	RUBBER EXTRUSION
4	4	4		AN3-7A	BOLT
8	8	8		AN3-15A	BOLT
1	1	1		AN4-12A	BOLT
16	16	16		AN4-14A	BOLT
4	4	4		AN4-16A	BOLT
24	24	24		AN960JD10	WASHER
42	42	42		AN960JD416	WASHER
12	12	12		MS21042L3	NUT (OR MS21042-3)
21	21	21		MS21042L4	NUT (OR MS21042-4)
			1	BLRS-010	QUICK RELEASE PIN (1" GRIP)
			3	BLRS-020	QUICK RELEASE PIN (1.5" GRIP)

* INCLUDED IN D2694 OR D3322-041/-042 POD ASSEMBLIES LISTED ABOVE

** INCLUDED IN D3007-041 PROP ASSEMBLY LISTED ABOVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01






APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 10.04.23

CERT. NO.: SH93-97

ISSUE NO.: 4

DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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CHECKED		DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9515	SHEET 2 OF 4
APPROVED		TITLE	SCALE
DE APPR.		LUG MODIFICATION	NTS
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